

Notice of Allowability

Application No.

10/035,771

Examiner

Esaw T Abraham

Applicant(s)

BOLOURCHI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response after final filed on 01/05/05.
2. ☒ The allowed claim(s) is/are 1-5 and 8-11 (renumbered as 1-9).
3. ☒ The drawings filed on 12/26/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Eyeg J. Lamarre
Primary Examiner

DETAILED ACTION

1. Claims **6 and 7** are cancelled.
2. Claims 1-5 and 8-11 are allowed.

Examiner's statement for reason for allowance

The following is an examiner's statement for allowance:

3. Claims **1-5 and 8-11** have been allowed.

As per claim **1**, the prior art of record (U.S. PN: 5,930,706), Raith in figure 4 teaches or discloses a mobile station receive burst-modulated signals from a base station through an antenna (121) connected to a receiver (122) (see col. 10, lines 16-20). Raith teaches the output of the speech coder (101) is fed to a channel coder (104) which applies one or more error protection or correction techniques to the data stream and further the channel coder (104) use a CRC over some of the most significant bits (see col. 8, lines 53-60 and figure 8 element 203) and furthermore the channel coder coupled to 2-burst interleaver (108) and to modulo-2 adder (first combiner) (109) (see col. 9, lines 19-22). Raith teaches second combiner (modulo-2 adder) (127) coupled by a symbol detector (126). Raith teaches storing a selected data contained in at least in one of the received messages and comparing the selected data to determine whether the selected data is contained in received data (see claim 1). Further, the applicants' admitted prior art, figure 2 teaches a method appends the UE ID onto data transmission, the combination fed to a CRC generator, which outputs a CRC (see page 3, lines 13-15 of the disclosure). However, at said first communicating unit, a first combiner for combining said CRC with an identification of the second communicating unit to generate a mask, at said second communicating unit, a second combiner for combining said mask with said stored identification to recover the CRC and means

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for determined whether said recovered CRC is valid. Consequently, claim 1 is allowed over the prior art.

Claim 2, which is directly or indirectly dependent of claim 1 is also allowable over the prior art of record.

As per claim 3, the prior art of record (U.S. PN: 5,930,706), Raith in figure 4 teaches or discloses a mobile station receive burst-modulated signals from a base station through an antenna (121) connected to a receiver (122) (see col. 10, lines 16-20). Raith teaches the output of the speech coder (101) is fed to a channel coder (104) which applies one or more error protection or correction techniques to the data stream and further the channel coder (104) use a CRC over some of the most significant bits (see col. 8, lines 53-60 and figure 8 element 203) and furthermore the channel coder coupled to 2-burst interleaver (108) and to modulo-2 adder (first combiner) (109) (see col. 9, lines 19-22). Raith teaches second combiner (modulo-2 adder) (127) coupled by a symbol detector (126). Raith teaches storing a selected data contained in at least in one of the received messages and comparing the selected data to determine whether the selected data is contained in received data (see claim 1). Further, the applicants' admitted prior art, figure 2 teaches a method appends the UE ID onto data transmission, the combination fed to a CRC generator, which outputs a CRC (see page 3, lines 13-15 of the disclosure). However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious at said first communication unit a combiner for combining and CRC with the identification number to generate a mask, at said second communication unit a combiner for combining said mask with said stored identification number to recover CRC and a means for determining whether said recovered CRC is valid. Consequently, claim 1 is allowed over the prior art.

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Claims **4 and 5**, which is directly or indirectly dependent of claim 3 are also allowable over the prior art of record.

As per claim **8**, the prior art of record (U.S. PN: 5,930,706), Raith in figure 4 teaches or discloses a mobile station receive burst-modulated signals from a base station through an antenna (121) connected to a receiver (122) (see col. 10, lines 16-20). Raith teaches the output of the speech coder (101) is fed to a channel coder (104) which applies one or more error protection or correction techniques to the data stream and further the channel coder (104) use a CRC over some of the most significant bits (see col. 8, lines 53-60 and figure 8 element 203) and furthermore the channel coder coupled to 2-burst interleaver (108) and to modulo-2 adder (first combiner) (109) (see col. 9, lines 19-22). Raith teaches second combiner (modulo-2 adder) (127) coupled by a symbol detector (126). Raith teaches storing a selected data contained in at least in one of the received messages and comparing the selected data to determine whether the selected data is contained in received data (see claim 1). Further, the applicants' admitted prior art, figure 2 teaches a method appends the UE ID onto data transmission, the combination fed to a CRC generator, which outputs a CRC (see page 3, lines 13-15 of the disclosure). However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious at said first communication unit a combiner for receiving data and combining the data with an identification field including said identification to generate a mask, a cyclic redundancy check generator for receiving the mask and generating a CRC. Consequently, claim 8 is allowed over the prior art.

Claims **9 and 10**, which is directly or indirectly dependent of claim 8 are also allowable over the prior art of record.

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As per claim 11, the prior art of record (U.S. PN: 5,930,706), Raith in figure 4 teaches or discloses a mobile station receive burst-modulated signals from a base station through an antenna (121) connected to a receiver (122) (see col. 10, lines 16-20). Raith teaches the output of the speech coder (101) is fed to a channel coder (104) which applies one or more error protection or correction techniques to the data stream and further the channel coder (104) use a CRC over some of the most significant bits (see col. 8, lines 53-60 and figure 8 element 203) and furthermore the channel coder coupled to 2-burst interleaver (108) and to modulo-2 adder (first combiner) (109) (see col. 9, lines 19-22). Raith teaches second combiner (modulo-2 adder) (127) coupled by a symbol detector (126). Raith teaches storing a selected data contained in at least in one of the received messages and comparing the selected data to determine whether the selected data is contained in received data (see claim 1). Further, the applicants' admitted prior art, figure 2 teaches a method appends the UE ID onto data transmission, the combination fed to a CRC generator, which outputs a CRC (see page 3, lines 13-15 of the disclosure). However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious at said first unit combining the CRC with an identification of the second unit to generate a mask, appending the mask onto the data to form a data burst and transmitting the data burst and said second unit receiving the said data burst, retrieving the identification of the second unit from memory and combining the retrieved identification with said mask to generate said CRC and generate whether said CRC is valid. Consequently, claim 11 is allowed over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Esaw Abraham whose telephone number is (571) 272-3812. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are successful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for after final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


Esaw Abraham

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Primary Examiner